

**Amendments to the Claims**

Please cancel Claims 1-16. Please amend Claim 17. The Claim Listing below will replace all prior versions of the claims in the application:

**Claim Listing**

(Cancel) Claims 1-16

17. (Currently Amended) An organ preservation solution for the preservation of a human or human-compatible harvested organ in a functioning state comprising:

- (1) a metabolizable carbohydrate at a concentration between 2.5% and 3%;
- (2) sodium chloride at a concentration between 0.45% and 0.9%;
- (3) potassium ion at a concentration between 4 meq/L and 10 meq/L;
- (4) calcium ion at a concentration between 0.25 gm/L and 1.5 g/L;
- (4) magnesium ion at a concentration between 0.5 gm/L and 0.7 gm/L;
- (6) bicarbonate ion at a concentration between 10 meq/L and 20 meq/L;
- (7) epinephrin at a concentration between 0.5 mg/L and 2 mg/L;
- (8) adenosine at a concentration between 500  $\mu$ mol/L and 1 mmol/L; and
- (9) at least one fatty acid;

wherein said solution is substantially free of non metabolizable impermeants; and further wherein said solution has a pH of about 7.4 to about 8.5.

18. (Previously Presented) A solution according to Claim 17 wherein said solution further comprises a pharmaceutically active agent selected from the group consisting of heparin, nitroglycerin, an ACE inhibitor, a beta blocker, a calcium channel blocker, a cytoprotective agent, an antioxidant, an anti-fungal agent, an anti-viral agent, an anti-bacterial agent, an immunosuppressive agent, a nonsteroidal anti-inflammatory agent, a steroid, vitamins and mixtures thereof.

19. (Original) A solution according to Claim 18 wherein said solution further includes insulin.

20. (Original) A solution according to Claim 18 wherein said solution further includes a complement neutralizer.
21. (Previously Presented) A solution according to Claim 18 wherein said metabolizable carbohydrate is glucose.
22. (Cancel)
23. (Previously Presented) A method of preserving a human or human-compatible harvested organ in a functioning state during a preservation period prior to implantation comprising:
  - (a) providing an organ in need of preservation;
  - (b) providing containment means for said organ;
  - (c) providing a preservation fluid media; said fluid media comprising:
    - (i) whole blood or leukocyte-depleted whole blood that is compatible with said organ; and
    - (ii) a preservation solution comprising:
      - (a) a metabolizable carbohydrate;
      - (b) sodium chloride;
      - (c) potassium ion;
      - (d) calcium ion;
      - (e) magnesium ion;
      - (f) bicarbonate; epinephrin; and adenosine;
  - (d) delivering said fluid media to at least one major vessel of said contained functioning organ while said organ is maintained at a normothermic temperature of about 20° C. to about 37° C.
24. (Original) A method according to Claim 23 wherein said media includes heparin.

25. (Previously Presented) A method according to Claim 23 wherein said media further includes a pharmaceutically active agent selected from the group consisting of nitroglycerin, an ACE inhibitor, a beta blocker, a calcium channel blocker, a cytoprotective agent, an antioxidant, an anti-fungal agent, an anti-viral agent, an anti-bacterial agent, an immunosuppressive agent, a nonsteroidal anti-inflammatory agent, a steroid, and mixtures thereof.
26. (Original) A method according to Claim 23 wherein said media further includes at least one fatty acid.
27. (Original) A method according to Claim 26 wherein said method includes the further step of delivering said fluid media to the exterior of said organ.
28. (Original) A method according to Claim 23 wherein said method includes the further step of filtering said fluid media as metabolic products from said organ accumulate in said fluid media.
29. (Original) A method according to Claim 23 wherein said method includes the further step of oxygenation at least a part of said fluid media.
30. (Original) A method according to Claim 23 wherein said method comprises the further step of measuring the flow of said fluid media.
31. (Original) A method according to Claim 23 wherein said method comprises the further step of measuring the pressure of said fluid media.
32. (Original) A method according to Claim 23 wherein the harvested organ is selected from the group consisting of heart, kidney, liver, lung, pancreas, small intestine, blood carrying vessel, and myocutaneous free flap.

33. (Original) A method according to Claim 32 wherein the organ preserved is a heart.
34. (Previously Presented) A method of Claim 23 wherein said media includes insulin.